

**Claims**

1. An X-ray apparatus for intraoral imaging applications, said apparatus comprising a linkage mounted on a support structure, to which is connected  
5 an X-ray source for generating X-radiation and directing the same to a receiver instrument placed in a patient's mouth, said linkage comprising a first arm member, articulated to the support structure and adapted to be pivotable around a substantially vertical axis, a second arm member,  
10 connected to the end of the first arm member spaced from the support structure and adapted to be pivotable around a substantially vertical axis and a horizontal axis, and a third arm member, connected to the opposite end of the second arm member and adapted to be pivotable around a substantially horizontal axis, the unsupported end of the latter having the X-ray source mounted thereon with an articulated joint, which allows pivoting of the X-ray  
15 source to various position, said X-ray apparatus having said first arm member designed to be adjustable regarding its length.

2. An apparatus as set forth in claim 1, wherein the first arm member comprises two telescopically fitted, substantially rectangular profiles, the  
20 inner profile thereof having its two opposite outside surfaces formed with recesses lengthwise of the profile, with T-slots provided on the bottom thereof, and the outer profile having its inside surface formed with inward protrusions complementary to said recesses and provided with fastening through-holes for the passage of fastening elements from the outer profile's  
25 outside surface to the T-slot for locking said profiles in a desired relative position in the longitudinal direction thereof.

3. An apparatus as set forth in claim 2, wherein the outer profile has its outside surface provided with a lengthwise recess complementary to that  
30 present in the inner profile's outside surface.

4. An apparatus as set forth in claim 3, wherein said recesses in the inner and outer profiles are provided with a cover element for making the inner and outer profiles' outside surface essentially flat.